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MEN OF SCIENCE AND INDUSTRY

A GUIDE TO THE BIOGRAPHIES OF SCIENTISTS, ENGINEERS, INVENTORS AND PHYSICIANS, IN THE CARNEGIE LIBRARY OF PITTSBURGH

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Preface

The desirability of introducing the young scientist to the personality of his predecessors has long been recognized by those interested in education. "The student will find that the best way into any science is through the history of the discoveries that have made it a science. By following the footsteps of those who have found their way to the truth, we pursue natural, if seemingly vagrant, paths. The difficulties of discovery that the pioneers of the science met are the difficulties that the student encounters. Moreover, there is a human interest about the struggles of a man with the problems of the world that adds much to the hard facts of a science, and gives one of the needed graces to the stern features of any physical inquiry." *(Shaler and Davis, Illustrations of the Earth's Surface.)*

Although the material relating to the lives of scientists and engineers is considerable in quantity, it is widely scattered and difficult of access. This condition was recognized many years ago by the Society for the Promotion of Engineering Education, which appointed a committee of investigation, but as yet no feasible plan for a uniform editing of the material has been found. In the mean time, this Library has compiled a card index to the biographies in its own collection, and this bibliography is now printed in the hope that it may prove useful to others, even though it is confined to the resources of one library.

The list is, in general, limited to men whose work is concerned with the subjects represented in the classes Science and Useful Arts, of the Decimal Classification. On this basis some men prominent in business, engineering and invention are included whose rank as scientific workers may be questioned. The limitation to one collection, and that not one attempting completeness, will account for the absence of certain names

which might reasonably be expected to appear. The brief characterizations attached to the names have sometimes given difficulty because of the varied aspects of some men's work, but the endeavor has been to choose the field in which each has made his most important contributions to science. A man's birthplace has been considered as determining his nationality.

The original intention was to include only books about individuals and collections of biographies, omitting references to the periodical press. This plan has been modified by the inclusion of references to the publications of some societies which print obituary notices of members and a few scientific and technical journals which contain numerous biographical sketches. No references to general periodicals are given except a few from Poole's Index to additional material on men already in the list. The names of those who appear in the Dictionary of National Biography are indicated by asterisks.

A list of books systematically indexed is given below, also a list of biographical dictionaries and some other works useful for reference in this connection. Among the latter may be especially mentioned the Indexes to the Proceedings of the Institution of Civil Engineers, which contain references to some 2,500 names.

The plan, compilation and annotation of this list are the work of Miss Marion Knight and Mr E. H. McClelland.

HARRISON W. CRAVER,
Librarian.

October 20, 1914.

Books Indexed in this List

Allen, John Fenwick. 926.6 A42
Some founders of the chemical industry. 1906.

American Academy of Arts and Sciences. qr 506 A5122p
Proceedings, 1846–48, 1868–1912. v.1, 8–48.

American Institute of Electrical Engineers. r 621.305 A512
Transactions, 1884–1912. v.1–31.

American Institute of Mining Engineers. r 622.05 A51
Transactions, 1871–1911. v.1–42.

American Philosophical Society. r 506 A512
Proceedings, 1869–1913. v.11–52.

American Society of Civil Engineers. r 620.6 A51p
Proceedings, 1873–1912. v.1–38.

American Society of Civil Engineers. r 620.5 A51
Transactions, 1867–1912. v.1–75.

American Society of Mechanical Engineers. r 621.05 A5123
Transactions, 1880–1911. v.1–33.

Arago, Dominique François Jean. r 925 A65
Biographies of distinguished scientific men. 1857.

Ball, *Sir* Robert Stawell. 925.2 B21
Great astronomers. 1895.

Bettany, George Thomas. 926.1 B46
Eminent doctors; their lives and their work. 2v. 1885.

Bolton, *Mrs* Sarah (Knowles). 925 B61
Famous men of science. 1889.

Brewster, *Sir* David. 925 B73
Martyrs of science. 1877.

Brougham, Henry Peter, *baron Brougham and Vaux.* qr 928 B77
Lives of men of letters and science who flourished in the time of George III. 2v. 1845–46.

Bryson, John. 926 B84
Inventors of the Scotch-Irish race of America, 1892.

Camac, Charles Nicoll Bancker, *comp.* 610.9 C14
Epoch-making contributions to medicine, surgery and the allied sciences. 1909.

Chemical Society of London. 925 C42
Memorial lectures, 1893–1900. 1901.

Clodd, Edward. 925 C61
Pioneers of evolution from Thales to Huxley. 1897.

920 E588
Eminent persons; biographies reprinted from the Times. v.1–6. 1892–97.

Geikie, *Sir* Archibald. 550.9 G28
Founders of geology. 1905.

Geological Society of America. qr 550.5 B87
Bulletin. v.1–23. 1890–1912.

Gray, Asa. 580.4 G81s
Scientific papers. 2v. 1889.

Hennig, Richard. 926.2 H44
Buch berühmter ingenieure. 1911.

Howe, Henry. 926 H85
Memoirs of the most eminent American mechanics. 1857.

Hubert, Philip Gengembre. 926 H87
Inventors. 1893.

Iles, George. 926 I22
Leading American inventors. 1912.

Jeans, William Tullock. 926 J22
Creators of the age of steel. 1884.

Jeans, William Tullock. 925 J22
Lives of the electricians. 1887.

Jordan, David Starr, *ed.* 925 J42
Leading American men of science. 1910.

Knox, Robert. 925 K35
Great artists and great anatomists. 1852.

Layson, John F. 926 L44
Great engineers.

Lodge, *Sir* Oliver Joseph. 520.9 L76
Pioneers of science. 1893.

Miall, Louis Compton. 925.7 M66
Early naturalists. 1912.

Morton, Edward John Chalmers. 925.2 M92
Heroes of science; astronomers. 1882.

Muir, Matthew Moncrieff Pattison. 925.4 M95
Heroes of science; chemists. 1883.

Munro, John. 925 M96
Heroes of the telegraph. 1891.

Munro, John. 925 M96p
Pioneers of electricity. 1890.

National Academy of Sciences. r 925 N15
Biographical memoirs. v.1–6. 1877–1909.

Nature, 1869–1913. v.1–90. qr 505 N15

Oliver, Frederick William, *ed.* 925.8 O23
Makers of British botany. 1913.

Ostwald, Wilhelm. 925 O29
Grosse männer. 1909.

Philosophical Society of Washington. r 506 W27
Bulletin. v.1–15. 1874–1910.

Pioneers of progress. [1910.] 926 P64

Poincaré, Jules Henri. 925 P74
Savants et écrivains. [1910.]

Popular science monthly, 1872–1912. v.1–81. r 505 P81

Potamian, *Brother.* 925 P84
Makers of electricity. 1909.

Ramsay, *Sir* William. 540.4 R18
Essays, biographical and chemical. 1908.

Royal Society of London. r 506 R81pr
Proceedings, 1800–1912. v.1–87A.

Schulze, Franz Arthur. 925.3 S39
Die grossen physiker und ihre leistungen. 1910.
"Literatur," p.108.

Smiles, Samuel. 926 S64i
Industrial biography. 1889.

Smiles, Samuel. 926 S64l
Lives of the engineers. 5v. 1874.

Smiles, Samuel. 926 S64
Men of invention and industry. 1885.

Smithsonian Institution. r 506 S66
Annual report, 1846–1911. v.1–66.

Stirling, William. qr 926.1 S86
Some apostles of physiology. 1902.

Stuart, Charles Beebe. r 926 S92
Lives and works of civil and military engineers of America. 1871.

Thorpe, Thomas Edward. 925.4 T41
Essays in historical chemistry. 1894.

Youmans, William Jay, *ed.* 925 Y35
Pioneers of science in America. 1896.

Brief List of Other Books Useful for Reference

American Iron & Steel Institute. r 669.106 A51
Biographical directory.

Atkinson, William Biddle, *ed.* qr 926.1 A87
Biographical dictionary of contemporary American physicians and surgeons. 1880.

Benjamin, Park. 537.09 B43
Intellectual rise of electricity. 1895.
Contains many short biographical sketches of electricians.

Britten, Frederick James. 681 B750
Old clocks and watches and their makers. 1899.
Contains alphabetical list of about 8,000 clockmakers and watchmakers.

Busbey, T. Addison, *comp.* r 926.5 B95
Biographical directory of the railway officials of America. 1901–06.

Cajori, Florian. 510.9 C12
History of mathematics. 1906.
Short biographies of mathematicians.

Cajori, Florian. 530.9 C12
History of physics. 1899.
Full of short sketches of physicists.

Cassino, Samuel Edson, *comp.* r 502 C26
Naturalists' directory, 1890, 1895, 1898, 1914.

Cattell, James McKeen, *ed.* qr 925 C28
American men of science; a biographical directory [1906, 1910].

Doctor's who's who. 1906. r 926.1 D66
Aims to include the names of all foreign physicians of extraordinary repute, and of American physicians who are either authors of medical works, professors in recognized colleges conferring the M. D. degree, editors of prominent medical journals, superintendents of important state medical institutions or presidents of important medical societies.

Francis, Samuel Ward. r 926.1 F86
Biographical sketches of distinguished living New York physicians. 1867.

Goddard, Dwight. 926 G54
Eminent engineers. 1906.

Grahame-White, Claude, & **Harper,** Harry. 533.652 G77
The aeroplane, past, present and future. 1911.
Briefest notes of aviators (pilots).

Harshberger, John William. r 925.8 H31
The botanists of Philadelphia and their work. 1899.
Biographical sketches. Appendixes give lists of members of the Philadelphia Botanical Club and of the Botanical Society of Philadelphia.

Hawkins, Nehemiah, *comp.* r 537.03 H36
Hawkins' electrical dictionary. 1910.
Brief biographical notes.

Hawkins, Nehemiah, *comp.* r 621.03 H36
Hawkins' mechanical dictionary. 1910.
Includes concise biographies of noted engineers and inventors.

Institution of Civil Engineers. r 620.5 I247m v.o[1-4]
Subject index to Minutes of proceedings.
Indexes some 2,500 memoirs of deceased members.

Jeaffreson, John Cordy. 926.1 J22
Book about doctors. [1862.] Hurst.
Anecdotal sketches of noted physicians.

Kelly, Howard Atwood. 925.8 K17
Some American medical botanists commemorated in our botanical literature. 1914.

Kelly, Howard Atwood, *ed.* qr 926.1 K17
Cyclopedia of American medical biography; comprising the lives of eminent deceased physicians from 1610 to 1910. 2v. 1912.
Bibliography, v.1, p.4–5.

Lebon, Ernest. 520.9 L47
Histoire abrégée de l'astronomie. 1899.
Contains brief sketches of eminent astronomers, and a biographical dictionary.

Maiden, Joseph Henry. r 925.8 M26
Records of Queensland botanists; a paper read before the [Australasian Association for the Advancement of Science]. 1909.
With this is bound his "Records of the earlier French botanists as regards Australian plants."

Meyer, Ernst von. 540.9 M65
History of chemistry. 1906.
Short biographies of chemists.

Mumford, James Gregory. 610.9 M96
Narrative of medicine in America.

Oliver, Frederick William, *ed.* 925.8 O23
Makers of British botany; a collection of biographies by living botanists. 1913.

Poggendorff, Johann Christian, *comp.* qr 016.5 P74
Biographisch-literarisches handwörterbuch zur geschichte der exacten wissenschaften, 1858–1904. v.1–4, in 6. 1863–1904.

Roberts, Ethel. 925.4 R53
Famous chemists. 1911.

Schädler, Carl, *ed.* r 925.4 S29
Biographisch-litterarisches handwörterbuch der wissenschaftlich bedeutenden chemiker. 1891.
Brief biographical sketches of chemists and physicists who have been prominent in the development of chemistry. Gives dates, important work, etc.

Toner, Joseph Meredith. r 926 T61
Medical men of the Revolution, with a brief history of the medical department of the Continental army, containing the names of nearly 1,200 physicians. 1876.

Verein Deutscher Ingenieure, Berlin. qr 609 V27

Beiträge zur geschichte der technik und industrie; jahrbuch des Vereines Deutscher Ingenieure; hrsg. von Conrad Matschoss, 1909–13. v.1–5.

Contains biographies of engineers.

Wait, John Cassan, *comp.* r 926 W14

Calendar of invention and discovery. 1903.

Epitome of scientific biography. Each day of the year is marked by the names of two prominent scientists or inventors born on that day. Brief biographical sketch of each is given.

Watson, Irving Allison, *comp.* qr 926.1 W31

Physicians and surgeons of America; a collection of biographical sketches of the regular medical profession. 1896.

Who's who in science (international), 1912–14. r 925 W66

Williams, Stephen West. r 926.1 W74

American medical biography; or, Memoirs of eminent physicians, embracing principally those who have died since [1828]. 1845. Merriam.

Men of Science and Industry

Abbe, Cleveland, *b.* 1838, *American meteorologist.*
Popular science monthly. 1888. v.32, p.400–408.....r 505 P81 v.32

Abbe, Ernst, 1840–1905, *German optician.*
Nature. 1905. v.71, p.301–302.....qr 505 N15 v.71

Abbott, Charles Conrad, *b.* 1843, *American naturalist.*
Popular science monthly. 1887. v.30, p.547–553.....r 505 P81 v.30

Abbott, Job, 1845–96, *American engineer.*
American Society of Civil Engineers. Transactions. 1896. v.36, p.538–539.....r 620.5 A51 v.36

***Abernethy,** John, 1764–1831, *English physician.*
Bettany. Eminent doctors. 1885. v.1, p.226–241.....926.1 B46 v.1
Macilwain. Memoirs of John Abernethy, with a view of his lectures, writings and character. 1853.....92 A146m

Abert, John James, 1788–1862, *American engineer.*
American Society of Civil Engineers. Proceedings. 1893. v.19, p.88–92.....r 620.6 A51p v.19

Abert, Sylvanus Thayer, 1828–1903, *American engineer.*
American Society of Civil Engineers. Transactions. 1907. v.59, p.521–530.....r 620.5 A51 v.59

Acheson, Edward Goodrich, *b.* 1856, *American chemist and inventor.*
Acheson. A pathfinder: discovery, invention and industry. 1910.....92 A177

Ackenheil, Charles, 1841–90, *German-American engineer.*
American Society of Civil Engineers. Proceedings. 1891. v.17, p.137–138.....r 620.6 A51p v.17

***Acland,** *Sir* Henry Wentworth, 1815–1900, *English physician and anatomist.*
Royal Society of London. Proceedings. 1904–05. v.75, p.169–174.....r 506 R81pr v.75

***Adams,** John Couch, 1819–92, *English astronomer.*
American Academy of Arts and Sciences. Proceedings. 1892. v.27, p.444–446.....qr 506 A5122p v.27
Ball. Great astronomers. 1895. p.354–372.....925.2 B21
Popular science monthly. 1892. v.41, p.545–550.....r 505 P81 v.41

***Addison,** Thomas, 1793–1860, *English physician.*
Bettany. Eminent doctors. 1885, v.2, p.2–14.....926.1 B46 v.2

Adgate, George, 1845–1909, *American engineer.*
American Society of Civil Engineers. Transactions. 1909. v.65, p.514–516.....r 620.5 A51 v.65

Agassiz, Alexander Emmanuel Rodolphe, 1835–1910, *Swiss-American naturalist.*

Agassiz, G. R. *ed.* Letters and recollections of Alexander Agassiz, with a sketch of his life and work. 1913.....92 A2622a

American Academy of Arts and Sciences. Proceedings. 1912. v.48, p.31–44.....qr 506 A5122p v.48

Popular science monthly. 1910. v.77, p.419–446.....r 505 P81 v.77

Smithsonian Institution. Annual report. 1910. v.65, pt.1, p.447–472.....r 506 S66 v.65 pt.1

Agassiz, Louis, 1807–73, *Swiss-American naturalist.*

Agassiz, Mrs Louis. Louis Agassiz; his life and correspondence. 1893.....92 A262a

American Academy of Arts and Sciences. Proceedings. 1874. v.9, p.310–320.....qr 506 A5122p v.9

Bolton. Famous men of science. 1889. p.302–346.....925 B61

Gould. Louis Agassiz. 1901.....92 A262g

Jordan. Leading American men of science. 1910. p.147–169.....925 J42

Jordan. Science sketches. 1896. p.133–152.....570.4 J42

Marcou. Life, letters and works of Louis Agassiz. 2v. 1896.....92 A262m

National Academy of Sciences. Biographical memoirs. 1877–1909. v.2, p.39–73.....r 925 N15 v.2

Popular science monthly. 1874. v.4, p.608–618.....r 505 P81 v.4

Popular science monthly. 1907. v.71, p.542–549.....r 505 P81 v.71

Royal Society of London. Proceedings. 1877. v.25, p.xxii–xxx.....r 506 R81pr v.25

Smithsonian Institution. Annual report. 1873. v.28, p.198–210.....r 506 S66 v.28

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Thayer. Men who win. 1897. p.293–321.....920 T34m

Whipple. Recollections of eminent men. 1900. p.77–118..920 W624

Youmans. Pioneers of science in America. 1896. p.475–491..925 Y35

Agnew, David Hayes, 1818–92, *American surgeon and medical writer.*

Adams, J. Howe-. History of the life of D. Hayes Agnew. 1892.....q 92 A273a

Ainsworth, Danforth Hurlbut, 1828–1904, *American engineer.*

American Society of Civil Engineers. Transactions. 1905. v.54, pt.7, p.522–523.....r 620.5 A51 v.54, pt.7

***Airy,** *Sir* George Biddell, 1801–92, *English astronomer.*

Airy. Autobiography; ed. by Wilfrid Airy. 1896.....92 A298

American Academy of Arts and Sciences. Proceedings. 1892. v.27, p.446–448.....qr 506 A5122p v.27

Ball. Great astronomers. 1895. p.289–302.....925.2 B21

Eminent persons. 1896. v.5, p.178–182.....920 E588 v.5

Popular science monthly. 1873. v.3, p.101–104.....r 505 P81 v.3

***Airy,** *Sir* George Biddell—*continued.*
Royal Society of London. Proceedings. 1892. v.51, p.I–XXI.....r 506 R81pr v.51

Aitchison, James Edward Tierney, 1835–98, *English botanist.*
Royal Society of London. Proceedings. 1899. v.64, p.XI–XIII.....r 506 R81pr v.64

***Aitken,** *Sir* William, 1825–92, *English physician.*
Royal Society of London. Proceedings. 1894. v.55, p.XIV–XVI.....r 506 R81pr v.55

Albertus Magnus, 1206(?)–80, *German scientist.*
Townsend. Great schoolmen of the middle ages. 1905. p.163–173.....923.7 T66
Walsh. Catholic churchmen in science. 1906. v.2, p.21–58..509 W18 v.2

Aldrich, James Colwell, 1838–1900, *American engineer.*
American Society of Civil Engineers. Transactions. 1901. v.45, p.617–620.....r 620.5 A51 v.45

Alexander, John Henry, 1812–67, *American geologist.*
National Academy of Sciences. Biographical memoirs. 1877–1909. v.I, p.213–226.....r 925 N15 v.I

Alexander, Stephen, 1806–83, *American astronomer.*
American Academy of Arts and Sciences. Proceedings. 1884. v.19, p.504–511.....qr 506 A5122p v.19
National Academy of Sciences. Biographical memoirs. 1877–1909. v.2, p.249–259.....r 925 N15 v.2

Allen, Horatio, 1802–89, *American engineer.*
American Society of Civil Engineers. Proceedings. 1890. v.16, p.180–184.....r 620.6 A51p v.16
American Society of Mechanical Engineers. Transactions. 1890. v.II, p.1156–1181.....r 621.05 A5123 v.II
Railroad and engineering journal. 1890. v.64 (n. s. v.4), p.82–86, 113–117, 174–176.....qr 625.05 R1524 v.64

Allen, Theodore, 1840–90, *American engineer.*
American Society of Civil Engineers. Proceedings. 1891. v.17, p.240–241.....r 620.6 A51p v.17

Allhusen, Christian, 1806–90, *German-English chemical manufacturer.*
Allen. Some founders of the chemical industry. 1906. p.233–248.....926.6 A42

Allis, Edward Phelps, 1824–89, *American engineer.*
American Society of Civil Engineers. Proceedings. 1889. v.15, p.168–169.....r 620.6 A51p v.15

***Allman,** George James, 1812–98, *Irish zoölogist.*
Nature. 1898. v.59, p.202–204.....qr 505 N15 v.59
Royal Society of London. Proceedings. 1904–05. v.75, p.25–27.....r 506 R81pr v.75

Allman, George Johnston, 1824–1904, *Irish mathematician.*
Royal Society of London. Proceedings. 1906. v.78A, p.XII–XIII.....r 506 R81pr v.78A

Ampère, André Marie, 1775–1836, *French physicist and electrician.*
Ampère. Journal et correspondance; recueillis par Mme [Henriette Chevreux]. 1872.....92 A526a
Munro. Pioneers of electricity. 1890. p.161–176.....925 M96p
Potamian. Makers of electricity. 1909. p.232–257.....925 P84
Smithsonian Institution. Annual report. 1872. v.27, p.111–171.....r 506 S66 v.27

Anderson, Adna, 1827–89, *American engineer.*
American Society of Civil Engineers. Proceedings. 1889. v.15, p.166–168.....r 620.6 A51p v.15

Anderson, George Bonbright, 1853–96, *American physician.*
Anderson, W. C. In memory of George Bonbright Anderson. 1897.....r 92 A546a

***Anderson**, John, 1833–1900, *Scottish naturalist.*
Nature. 1900. v.62, p.529–531.....qr 505 N15 v.62
Royal Society of London. Proceedings. 1904–05. v.75, p.113–116.....r 506 R81pr v.75

Andral, Gabriel, 1797–1876, *French physician.*
American Academy of Arts and Sciences. Proceedings. 1876. v.11, p.363–365.....qr 506 A5122p v.11

***Andrews**, Thomas, 1813–85, *Irish chemist.*
Nature. 1885. v.33, p.157–159.....qr 505 N15 v.33
Royal Society of London. Proceedings. 1887. v.41, p.XI–XV.....r 506 R81pr v.41

Andrews, Thomas, 1847–1907, *English metallurgist.*
Royal Society of London. Proceedings. 1908. v.81A, p.LXXXII–LXXXIV.....r 506 R81pr v.81A

Ångström, Anders Jonas, 1814–74, *Swedish physicist.*
Nature. 1874. v.10, p.376–377.....qr 505 N15 v.10
Royal Society of London. Proceedings. 1877. v.25, p.XVIII–XXII.....r 506 R81pr v.25

Ångström, Knut Johan, 1857–1910, *Swedish physicist.*
Nature. 1910. v.83, p.134–135.....qr 505 N15 v.83

Ansley, George Doane, 1836–83, *Canadian engineer.*
American Society of Civil Engineers. Proceedings. 1889. v.15, p.109–110.....r 620.6 A51p v.15

Antisell, Thomas, 1817–93, *Irish geologist and chemist.*
Philosophical Society of Washington. Bulletin. 1896. v.13, p.367–370.....r 506 W27 v.13

Apjohn, James, 1796–1886, *Irish chemist and physicist.*
Royal Society of London. Proceedings. 1887. v.41, p.I–II.....r 506 R81pr v.41

***Appold,** John George, 1800–65, *English mechanician.*
Royal Society of London. Proceedings. 1867. v.15, p.I–VI.....r 506 R81pr v.15

Arago, Dominique François Jean, 1786–1853, *French physicist and astronomer.*
Littell's living age. 1846. v.11, p.140–148.....r 051 L74 v.11
Popular science monthly. 1886. v.30, p.259–266.....r 505 P81 v.30
Smithsonian Institution. Annual report. 1870. v.25, p.145–196.....r 506 S66 v.25

Archbald, James, 1838–1910, *American engineer.*
American Society of Civil Engineers. Transactions. 1911. v.72, p.586–588.....r 620.5 A51 v.72

***Archer,** William, 1830–97, *Irish naturalist.*
Royal Society of London. Proceedings. 1898. v.62, p.XL–XLIII.....r 506 R81pr v.62

Argelander, Friedrich Wilhelm August, 1799–1875, *German astronomer.*
American Academy of Arts and Sciences. Proceedings. 1875. v.10, p.505–507.....qr 506 A5122p v.10
American journal of science. 1876. v.112, p.113–118..r 505 A51 v.112
Popular science monthly. 1891. v.39, p.549–555.....r 505 P81 v.39

***Argyll,** George Douglas Campbell, *duke of,* 1823–1900, *English politician, philosopher and scientist.*
Argyll. Autobiography and memoirs; ed. by the dowager duchess of Argyll. 2v. 1906.....92 A695

***Arkwright,** *Sir* Richard, 1732–92, *English mechanical engineer, inventor of cotton-spinning machinery.*
Coleridge. Lives of northern worthies. 1852. v.2, p.358–385.....920 C68 v.2
Howe. Lives of eminent mechanics. 1857. p.258–269.....926 H85

Armstrong, Robert Young, 1839–94, *Irish military engineer.*
Royal Society of London. Proceedings. 1895. v.57, p.XXII–XXIV.....r 506 R81pr v.57

***Armstrong,** William George, *baron,* 1810–1900, *English mechanical engineer.*
Fortunes made in business. 1887. v.3, p.117–198.....926 F97 v.3
Layson. Great engineers. p.321–359.....926 L44
Pioneers of progress. [1910.] p.67–94.....926 P94
Royal Society of London. Proceedings. 1904–05. v.75, p.217–227.....r 506 R81pr v.75

***Arnott,** George A. Walker-, 1799–1868, *Scottish botanist.*
Gray. Scientific papers. 1889. v.2, p.347–348.....580.4 G81s

***Arnott,** Neil, 1788–1874, *Scottish physician.*
Royal Society of London. Proceedings. 1877. v.25, p.XIV–XVIII.....r 506 R81pr v.25

Arrol, *Sir* William, *b.* 1839, *English engineer and bridge builder.*
Pioneers of science. [1910.] p.137–163.....926 P64

Aselli, Gaspar, 1580–1626, *Italian physiologist.*

Stirling. Some apostles of physiology. 1902. p.13–14..qr 926.1 S86

Ashburner, Charles Albert, 1854–90, *American geologist.*

American Institute of Mining Engineers. Transactions. 1890. v.18, p.365–370.....r 622.05 A51 v.18

American Philosophical Society. Proceedings. 1890. v.28, p.53–59.....r 506 A512 v.28

Aspinwall, William Howland, 1807–75, *American engineer.*

American Society of Civil Engineers. Transactions. 1896. v.36, p.598–599.....r 620.5 A51 v.36

Atkinson, John Bond, 1840–1911, *American engineer.*

American Society of Civil Engineers. Transactions. 1911. v.74, p.492–494.....r 620.5 A51 v.74

Atwood, William Henry, 1851–90, *American engineer.*

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Wood, George B. 1797–1879, *American physician.*
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Hill, John.
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Barnes, D. L.
Barnes, James.
Barriger, J. W.
Bateman, J. F.
Bates, D. S.
Bayley, G. W. R.
Becker, M. J.
Belknap, M. S.
Bell, G. J.
Bell, H. P.
Bell, J. E.
Engineers—*continued*
Berrian, R. M.
Bessemer, *Sir* Henry.
Biddle, W. F.
Bishop, T. S.
Blackwell, Charles.
Blaisdell, A. H.
Bogart, J. P.
Bond, F. W.
Booker, B. F.
Boulton, Matthew.
Bouscaren, L. G. F.
Breckinridge, Cabell.
Briggs, Robert.
Brinckerhoff, H. W.
Brindley, James.
Brodhead, C. E.
Brown, L. W.
Brunel, I. K.
Brunel, *Sir* M. I.
Buck, L. L.
Burns, Justin.
Burton, S. B.
Butts, E. P.
Buxton, Clifford.
Caldwell, G. B.
Caligny, A. F. Hüe, *marquis* de.
Campbell, A. J.
Campbell, Allan.
Campbell, C. E. H.
Canet, Gustave.
Carothers, D. D.
Carpenter, C. A.
Carpenter, F. R.
Cary, E. S.
Casey, T. L.
Cass, G. W.
Chanute, Octave.
Chase, W. B.
Cheney, J. E.
Chesbrough, E. S.
Church, G. E.
Cisneros, F. J.
Clapp, L. R.
Clapp, W. B.
Clarke, H. W.
Clarke, T. C.
Cleeman, T. M.

Engineers—*continued*

Clemens, E. V.
Cleverdon, H. L.
Cobb, R. L.
Coffin, F. C.
Colburn, Warren.
Colburn, Zerah.
Colladon, J. D.
Colman, I. D.
Comfort, S. G.
Connor, Addison.
Coode, *Sir* John.
Cooke, R. L.
Correa, E. A.
Coryell, Martin.
Covode, J. H.
Coxe, E. B.
Craighill, W. P.
Croes, J. J. R.
Crosby, Wilson.
Cunningham, J. M.
Cunningham, P. D.
Curtis, W. G.
Cushing, S. B.
Cutshaw, W. E.
Darling, E. A.
Davidson, M. O.
Davis, Charles.
Davis, F. L.
Davis, J. W.
Dawley, E. P.
Deans, C. H.
Dearborn, W. L.
Derby, George.
Dickinson, P. P.
Dillon, Sidney.
Diven, A. S.
Doane, Thomas.
Douglas, Benjamin.
Douglass, D. B.
Douglass, *Sir* J. N.
Duane, J. C.
Du Barry, J. N.
Dudley, C. T.
Dun, James.
Eads, J. B.
Earley, J. E.
Edwards, William.

Engineers—*continued*

Eiffel, Gustave.
Ellet, Charles.
Ellicott, Andrew.
Ellis, N. W.
Ellis, T. G.
Emery, C. E.
Emigh, J. H.
Emmet, T. A.
Emmons, C. M.
Emmons, S. F.
Engle, R. L.
Erdmann, E. E.
Eustis, H. L.
Evans, A. W. W.
Ewing, W. B.
Eyth, M. F. E. von.
Fairbairn, *Sir* William.
Falconnet, E. F.
Farnam, Henry.
Farnham, I. T.
Farquhar, F. U.
Feind, Bernhard.
Felton, S. M.
Ferrier, J. J.
Field, B. K.
Fink, Albert.
Fisher, Elstner.
Flad, Henry.
Ford, A. L.
Forrer, Samuel.
Forshey, C. G.
Fourneyron, Benoît.
Fowler, C. E.
Fowler, *Sir* John.
Francis, J. B.
Francis, James.
Frazer, J. H.
French, F. R.
Frizell, J. P.
Frost, B. D.
Fteley, Alphonse.
Fulton, Robert.
Funiak, Frederick de.
Gardner, H. A.
Gelette, W. D.
Gibbs, N. J.
Gillespie, J. L.

Engineers—*continued*

Gillham, Robert.
Gilliss, J. R.
Gillmore, Q. A.
Goad, C. E.
Goodwin, H. S.
Goodwin, J. M.
Gorringe, H. H.
Gottlieb, Abraham.
Gould, E. S.
Graff, Frederic.
Graham, J. M.
Grant, W. H.
Grashof, Franz.
Gravatt, William.
Green, R. B.
Greene, B. H.
Greene, D. M.
Greene, G. S.
Greene, J. N.
Greenwood, W. H.
Griffen, John.
Guild, J. C.
Gzowski, *Sir* C. S.
Hadsall, J. C.
Hall, J. A.
Hanna, W. S.
Hardee, T. S.
Harding, Henry.
Harding, Horace.
Hasbrouck, C. A.
Haskell, C. F. B.
Haslett, Sullivan.
Haswell, C. H.
Hatfield, R. G.
Hawes, L. E.
Hawkins, Irving.
Hawkshaw, *Sir* John.
Hawksley, Thomas.
Hayes, R. S.
Hegeman, A. B.
Hemming, D. W.
Henning, G. C.
Henry, D. F.
Hequembourg, C. E.
Herbert, A. P.
Hermany, Charles.
Herrmann, F. G.

Engineers—*continued*

Herschel, Clemens.
Hilgard, J. E.
Hillman, C. F.
Hinckley, J. F.
Hirn, G. A.
Hite-Smith, Van Dusen.
Hobby, A. S.
Hodgkinson, Eaton.
Hoek, Jacobus van der.
Hogg, J. B.
Holbrook, H. R.
Holley, A. L.
Holloway, J. F.
Holmes, E. M.
Horan, J. J.
Houston, John.
Howe, H. J.
Howell, G. W.
Humphrey, H. C.
Humphrey, John.
Humphreys, Charles.
Hunt, A. E.
Hunt, C. W.
Hunt, E. B.
Hunt, Randell.
Hutton, N. H.
Hyde, W. B.
Intze, Otto.
Irwin, R. B.
Jackson, William.
James, J. C.
Jenkin, H. C. F.
Jervis, J. B.
Johnson, C. R.
Johnson, J. B.
Johnson, W. C.
Jones, W. R.
Jordan, Gabriel.
Judah, T. D.
Keating, E. H.
Keefer, Samuel.
Kellogg, A. V.
Kenly, E. M.
Kernot, W. C.
Kerr, W. C.
Killebrew, Samuel.
Kingman, Lewis.

Engineers—*continued*

Kingsley, W. C.
Kirkwood, J. P.
Knaudt, Adolf.
Kneass, S. H.
Kneass, Strickland.
Knight, Jonathan.
Knight, W. B.
Knowlton, C. A.
Körting, Ernst.
Lane, Moses.
Larcom, *Sir* Thomas.
Latcha, J. A.
Latham, N. S.
Latimer, Charles.
Latrobe, B. H.
Laurie, James.
Lawson, W. B.
Leather, B. H.
Lederle, G. A.
Lesage, Louis.
Lesseps, Ferdinand, *viscomte* de.
Leverich, Gabriel.
Lewerenz, A. C.
Lewis, I. W. P.
Libby, E. D.
Lincoln, W. S.
Lindenthal, Dominik.
Linville, J. H.
Locke, A. W.
Locke, Joseph.
Loiseau, É. F.
Looker, H. B.
Loring, C. H.
Lotz, W. H.
Lovett, T. D.
Low, G. P.
Lowthorp, F. C.
McAlpine, W. J.
McCalla, R. C.
McCurdy, J. E.
McGee, V. N.
Mackall, B. F.
McKay, J. E.
McKean, Reginald.
McKeown, Thomas.
MacNaughton, James.
McRee, William.

Engineers—*continued*

MacRitchie, Charles.
McVean, J. J.
Malézieux, Émile.
Mallet, Robert.
Marr, G. A.
Martin, R. K.
Mason, E. D.
Matcham, C. A.
Melcher, F. O.
Mendell, G. H.
Mercur, Frederick.
Meriwether, Niles.
Merrill, W. E.
Metcalf, John.
Michie, W. R.
Miller, S. H.
Miller, Silvanus.
Mitchell, Alexander.
Mitchell, S. A.
Monroe, J. A.
Morgan, C. H.
Morison, G. S.
Morley, J. H.
Morley, W. R.
Morris, Gouverneur.
Morris, R. C.
Morse, J. O.
Murdoch, Gilbert.
Murdock, William.
Myddelton, *Sir* Hugh.
Mylne, W. C.
Neilson, Robert.
Nelles, G. T.
Newall, R. S.
Newcomen, Thomas.
Newell, John.
Newton, *Sir* Isaac.
Nichols, N. J.
Nichols, O. F.
Nichols, W. R.
Nicholson, G. B.
North, E. P.
Northrup, H. F.
Norton, F. O.
Norton, W. A.
Nourse, E. G.
Noyes, A. F.

Engineers—*continued*

Ogden, W. B.
Olney, La Fayette.
Olney, R. B.
Paddock, J. H.
Paine, Charles.
Paine, W. H.
Pearson, W. A.
Pennypacker, L. P.
Perry, John.
Philbrick, E. S.
Phinney, H. W. B.
Pierce, W. T.
Pike, W. A.
Poe, O. M.
Pole, William.
Poncelet, J. V.
Pope, M. S.
Pope, W. S.
Porter, C. T.
Post, J. C.
Post, S. S.
Potier, Alfred.
Potts, J. D.
Powell, C. F.
Pratt, T. W.
Prendergast, F. E.
Price, P. M.
Rafter, G. W.
Randolph, J. L.
Rankine, W. J. M.
Raymond, T. L.
Reed, E. M.
Reed, W. W.
Rees, W. M.
Reeves, S. J.
Reinholdt, K. O. P.
Reiseger, M. J.
Rendel, J. M.
Rennie, John.
Rhodes, Benjamin.
Rice, E. C.
Rich, W. W.
Richardson, H. B.
Riffle, A. S.
Riggenbach, Nikolaus.
Rinecker, Francis.
Roberts, E. P.

Engineers—*continued*

Roberts, W. M.
Roberts, William.
Robinson, Moncure.
Robinson, S. W.
Rogers, Fairman.
Rowe, S. M.
Rowland, T. F.
Rudloff, H. F.
Russell, N. E.
St. John, I. M.
Sample, J. H.
Scherzer, A. J.
Scherzer, William.
Schofield, M. W.
Schuyler, Howard.
Scott, W. L.
Sears, A. F.
Sears, W. H.
Seaver, J. W.
Seely, T. J.
Sellers, Coleman.
Seymour, Horatio.
Shaler, I. A.
Shima, Takejiro.
Shinn, W. P.
Shreeve, S. H.
Sickels, F. E.
Sickels, T. E.
Siemens, *Sir* C. W.
Simon, *Sir* John.
Sites, W. W. C.
Slataper, Felician.
Sloan, R. I.
Smeaton, John.
Smedley, S. L.
Smith, B. B.
Smith, C. A.
Smith, C. S.
Smith, C. V.
Smith, D. L.
Smith, F. H.
Smith, Hamilton.
Smith, I. W.
Smith, James.
Smith, T. G.
Spaulding, Ira.
Spielmann, Arthur.

Engineers—*continued*
Sproul, A. A.
Stanwood, J. H.
Starling, William.
Steele, H. M.
Stephenson, George.
Stephenson, Robert.
Stevens, R. L.
Stevenson, Robert.
Stewart, D. A.
Stites, A. C.
Stixrud, Martinius.
Stone, Waterman.
Stoney, B. B.
Storrow, C. S.
Stratton, F. A.
Stratton, G. D.
Striedinger, J. H.
Strobach, Paul von.
Swan, C. H.
Swift, J. G.
Swift, McRee.
Talcott, Cook.
Talcott, W. H.
Tatnall, George.
Taylor, S. M.
Taylor, W. D.
Teigen, T. W. R.
Telford, Thomas.
Thayer, W. W.
Thomas, A. T.
Thomas, G. E.
Thomas, J. R.
Thompson, J. C.
Thomson, G. H.
Thorndike, J. L.
Thorp, R. F.
Tidd, M. M.
Tingley, G. C.
Toucey, J. M.
Tower, A. B.
Tracy, E. H.
Tracy, J. F.
Trowbridge, W. P.
Truesdell, Charles.
Tullock, A. J.
Turner, W. T.

Engineers—*continued*
Tutton, C. H.
Vaughan, F. W.
Vaughn, C. G.
Venturi, G. B.
Vermuyden, *Sir* Cornelius.
Vignoles, C. B.
Waite, C. C.
Walker, W. W.
Walling, H. F.
Wardlaw, J. R.
Warren, G. K.
Watson, W. P.
Watt, James.
Weber, M. M. *freiherr* von.
Welch, Ashbel.
Weld, F. F.
Wellington, A. M.
Wells, D. L.
Whipple, Squire.
White, G. H.
White, W. H.
Whitehurst, John.
Whitelaw, John.
Whitford, O. F.
Wilkins, G. S.
Willard, J. E.
Williams, J. L.
Williamson, W. G.
Wilson, A. O.
Wilson, J. A.
Wilson, J. M.
Wilson, W. W.
Wood, C. W.
Wood, Charles.
Wood, De Volson.
Wood, Nicholas.
Woollard, G. C.
Worthen, W. E.
Worthington, H. R.
Wright, H. G.
Wright, W. W.
Yarranton, Andrew.
Yeatman, H. C.
Yorke, Edward.
Young, E. E.
Young, W. C.
Zeller, A. H.

Engineers, Civil
Childe, John.
Harbach, Frederick.
Rennie, George.
Rennie, *Sir* John.
Roberts, N. S.
Roebling, J. A.
Smith, W. F.
Stevenson, Alan.
Thomson, James.
Walker, James.
Watson, W. S.
White, Canvass.
Wright, Benjamin.

Engineers, Electrical
Ayrton, W. E.
Bauer, A. H.
Craigin, H. A.
Dorr, F. H.
Eickemeyer, Rudolf.
Greene, S. D.
Hopkinson, John.
Lufkin, H. L.
Perrine, F. A. C.
Pope, F. L.
Prescott, G. B.
Reckenzaun, Anthony.
Shallenberger, O. B.
Siemens, Werner von.
Wimshurst, James.

Engineers, Mechanical
Arkwright, *Sir* Richard.
Armstrong, W. G. *baron.*
Babcock, G. H.
Bauschinger, Johann.
Bramah, Joseph.
Clark, D. K.
Clement, Joseph.
Copeland, C. W.
Crompton, Samuel.
Davis, E. F. C.
Fritz, John.
Hackworth, Timothy.
Hargreaves, James.
Harvey, H. A.
Hedley, William.
Henney, J. B.
Hirsch, Joseph.

Engineers, Mechanical—*continued*
Hoadley, J. C.
Hobbs, A. C.
Hohlfeld.
Locke, S. D.
Maudslay, Henry.
Murray, Matthew.
Nasmyth, James.
Nicholson, W. T.
Penn, John.
Pickering, T. R.
Reading, R. B.
Reuleaux, Franz.
Reynolds, Edwin.
Richmond, George.
Roberts, Richard.
Schneider, Eugène.
Sellers, William.
Stieltjes, Frederick.
Thurston, R. H.
Tresea, Henri.
Trevithick, Richard.
Whitworth, *Sir* Joseph.
Wolf, R. E.
Wolff, A. R.

Engineers, Military
Armstrong, R. Y.
Barnard, J. G.
Benet, S. V.
Carnot, L. N. M. *comte.*
Cullum, G. W.
Everest, *Sir* George.
Haupt, Herman.
Humphreys, A. A.
Jervois, W. F. D.
Mahan, D. H.
Malus, É. L.
Meigs, M. C.
Michaelis, O. E.
Newton, John.
Pasley, *Sir* C. W.
Portlock, J. E.
Reid, *Sir* William.
Smith, W. F.
Totten, J. G.

Engineers, Mining
Blake, W. P.
Blandy, J. F.

Engineers, Mining—*continued*
Bramwell, J. H.
Collins, A. L.
Foster, *Sir* C. L.
Gaetzschmann, M. F.
Gruner, Louis.
Hague, J. D.
Heinrich, O. J.
Patton, W. H.
Pettee, W. H.
Pošepný, Franz.
Rothwell, R. P.
Schaufuss, E. C.
Scranton, W. H.
Stetefeldt, C. A.
Taylor, John.
Engineers, Naval
Ericsson, John.
Froude, William.
Rodgers, John.
Smith, David.
Entomologists
See also Naturalists.
Bonnet, Charles.
Buckton, G. B.
Fabre, J. H.
Fitch, Asa.
Frisch, J. L.
Hagen, H. A.
Huber, Francis.
Le Conte, J. L.
Lintner, J. A.
Lyonet, Pierre.
McLachlan, Robert.
Müller, Fritz.
Newport, George.
Riley, C. V.
Rosenhof, A. J. R. von.
Spence, William.
Stainton, H. T.
Geographers and explorers
See also Surveyors.
Bessels, Emil.
Gannett, Henry.
Ptolemy.
Rennell, James.
Rodgers, John.
Schoolcraft, H. R.
Geologists
See also Mineralogists.
Alexander, J. H.
Antisell, Thomas.
Ashburner, C. A.
Austen, R. A. C. Godwin-.
Ball, Valentine.
Barrande, Joachim.
Bigsby, J. J.
Binney, E. W.
Blake, W. P.
Blanford, W. T.
Boué, Ami.
Bouvé, T. T.
Bowman, Amos.
Buch, C. L. *freiherr* von.
Buckland, William.
Buckley, E. R.
Calvin, Samuel.
Carter, H. J.
Castillo, Antonio del.
Chapin, J. H.
Clarke, W. B.
Claypole, E. W.
Conybeare, W. D.
Croll, James.
Dana, J. D.
Daubeny, C. G. B.
Daubrée, G. A.
Dawson, G. M.
Dawson, *Sir* J. W.
De la Beche, *Sir* H. T.
Desmarest, Nicholas.
Desor, Edouard.
Dick, Robert.
Duncan, P. M.
Dwight, W. B.
Egerton, *Sir* P. de M. G.
Eldridge, G. H.
Élie de Beaumont, J. B. A. L. L.
Emmons, Ebenezer.
Enniskillen, W. W. Cole, *earl.*
Etheridge, Robert.
Evans, *Sir* John.
Fitton, W. H.
Foote, A. E.
Foster, *Sir* C. L.
Frazer, Persifor.

Geologists—*continued*

Geikie, *Sir* Archibald.
Gibbs, George.
Grant, R. E.
Green, A. H.
Griffith, *Sir* R. J.
Guettard, J. É.
Guyot, A. H.
Haast, *Sir* Julius von.
Hall, C. W.
Hall, James.
Hartt, C. F.
Haughton, Samuel.*
Hay, Robert.
Hayden, F. V.
Heilprin, Angelo.
Hicks, Henry.
Hitchcock, C. H.
Hitchcock, Edward.
Horner, Leonard.
Houghton, Douglass.
Howell, E. E.
Hudleston, W. H.
Hunt, T. S.
Hutton, F. W.
Hutton, James.
Irving, R. D.
Jackson, C. T.
James, J. F.
King, Clarence.
Knight, W. C.
Lacoe, R. D.
Lartet, É. A. I. H.
Lea, Isaac.
Le Conte, Joseph.
Lesley, J. P.
Lewis, H. C.
Logan, *Sir* W. E.
Lyell, *Sir* Charles.
McCalley, Henry.
McCoy, *Sir* Frederick.
McGee, W. J.
McMahon, C. A.
Marcou, Jules.
Marcy, Oliver.
Marsh, G. P.
Marsh, O. C.
Mather, W. W.

Geologists—*continued*

Medlicott, H. B.
Meek, F. B.
Michel-Lévy, Auguste.
Miller, Hugh.
Mills, J. E.
Mitchell, Elisha.
Moore, J. C.
Murchison, *Sir* R. I.
Neff, Peter.
Newberry, J. S.
Orton, Edward.
Owen, D. D.
Penfield, S. L.
Pengelly, William.
Perry, J. B.
Pettee, W. H.
Phillips, John.
Powell, J. W.
Prestwich, *Sir* Joseph.
Ramsay, *Sir* A. C.
Rand, T. D.
Richtofen, Ferdinand, *baron* von.
Rogers, H. D.
Russell, I. C.
Safford, J. M.
Sainte-Claire Deville, C. J.
Saussure, H. B. de.
Scrope, G. J. P.
Sedgwick, Adam.
Seeley, H. G.
Selwyn, A. R. C.
Shaler, N. S.
Sharpe, Daniel.
Sheafer, P. W.
Silliman, Benjamin.
Smith, William.
Sorby, H. C.
Steno, Nicolaus.
Studer, Bernhard.
Suess, Eduard.
Tarr, R. S.
Topley, William.
Troost, Gerard.
Vanuxem, Lardner.
Verneuil, P. É. P. de.
Walcott, C. D.
Werner, A. G.

Geologists—*continued*
Whitfield, R. P.
Whitney, J. D.
Williams, G. H.
Williams, J. F.
Winchell, Alexander.
Worthen, A. H.
Wright, A. A.
Wright, G. F.
Zittel, K. A. von.
Hydrographers
Baird, A. W.
Beautemps-Beaupré, C. F.
Davis, C. H.
Evans, *Sir* F. J. O.
Fitz Roy, Robert.
Richards, *Sir* G. H.
Smyth, W. H.
Spratt, T. A. B.
Washington, John.
Wharton, *Sir* W. J. L.
Ichthyologists
See also Naturalists.
Earll, R. E.
Lesueur, C. A.
Storer, D. H.
Traquair, R. H.
Instrument makers (scientific instruments)
Clark, A. G.
Clark, Alvan.
Clark, G. B.
Hamblet, James.
Harrison, John.
Norman, Robert.
Ramsden, Jesse.
Reichenbach, Georg von.
Simms, William.
Stanley, W. F.
Temple, J. H.
Zentmayer, Joseph.
Inventors
Acheson, E. G.
Arkwright, *Sir* Richard.
Batchelder, J. M.
Blanchard, Thomas.
Brooke, Charles.
Bushnell, David.
Inventors—*continued*
Cartwright, Edmund.
Cooper, Peter.
Donkin, Bryan.
Edison, T. A.
Evans, Oliver.
Fitch, John.
Franklin, Benjamin.
Goodyear, Charles.
Hargreaves, James.
Henry, William.
Holden, *Sir* Isaac.
Howe, Elias.
Lombe, John.
McCormick, C. H.
Mergenthaler, Ottmar.
Morse, S. F. B.
Nobel, A. B.
Perkins, Jacob.
Pitman, *Sir* Isaac.
Saxton, Joseph.
Sholes, C. L.
Smith, *Sir* F. P.
Stanhope, C. M. S.
Stevens, R. L.
Tilghman, B. C.
Whitney, Eli.
Whittemore, Amos.
Woodcroft, Bennet.
Worcester, Edward Somerset, *marquis of.*
Iron manufacturers
See also Metallurgists.
Brown, *Sir* John.
Cort, Henry.
Crawshay, R. T.
Darby, Abraham.
Dudley, Dud.
Fritz, John.
Krupp, Alfred.
Reynolds, Richard.
Wilkinson, John.
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Broun, J. A.
Evans, *Sir* F. J. O.
Hansteen, Christopher.
Lloyd, Humphrey.

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Neumayer, Georg von.
Riddell, C. J. B.
Sabine, *Sir* Edward.
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Cooper, Peter.
McCormick, C. H.
Slater, Samuel.
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Babbage, Charles.
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Carnot, L. N. M. *comte.*
Casey, John.
Cauchy, Augustin.
Cayley, Arthur.
Chasles, Michel.
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Christie, S. H.
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Condorcet, M. J. A. N. Caritat, *marquis* de.
Cremona, Luigi.
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De Morgan, Augustus.
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Dirichlet, P. G. L.
Ellis, A. J.
Euclid.
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Frost, Percival.
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Gauss, K. F.
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Harriot, Thomas.
Hayward, R. B.
Hennessy, Henry.
Hermite, Charles.

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Hill, Thomas.
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Jeffery, H. M.
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Kelland, Philip.
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Lie, Sophus.
Loomis, Elias.
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Newton, H. A.
Newton, *Sir* Isaac.
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Parkinson, Stephen.
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Ptolemy.
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Tait, P. G.
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Watson, H. W.
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Bell, *Sir* I. L.
Bessemer, *Sir* Henry.
Cheever, B. W.
Cooper, Edward.

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Wedding, Hermann.

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Buchan, Alexander.
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Ferrel, William.
Fitz Roy, Robert.
Glaisher, James.
Hazen, H. A.
Hazen, W. B.
Hoffmeyer, N. H.

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Maury, M. F.
Meldrum, Charles.
Myer, A. J.
Neumayer, Georg von.
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Welsh, John.

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Dallinger, W. H.
Quekett, J. T.

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Egleston, Thomas.
Friedel, Charles.
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Haüy, R. J.
Jameson, Robert.
Lea, Isaac.
Rand, T. D.
Rose, Gustav.
Shepard, C. U.
Smithson, James.
Werner, A. G.

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Belon, Pierre.
Beverley, C. J.
Bock, Hieronymus.
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Brunfels, Otto.
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Buffon, G. L. L. *comte* de.
Butler, Charles.
Caius, Joannes.
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Cesalpini, Andrea.
Conrad, T. A.
Cope, E. D.
Cuvier, G. L. C. D. *baron.*
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Gould, A. A.
Grew, Nehemiah.
Gundlach, Johann.
Gunn, R. C.
Haldeman, S. S.
Hewitson, W. C.
Holbrook, J. E.
Hooke, Robert.
Horsfield, Thomas.
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Jeffreys, J. G.
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Kirtland, J. P.
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Lapham, I. A.

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L'Escluse, Charles de.
Lesueur, C. A.
Lister, Martin.
L'Obel, Matthias de.
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Peale, T. R.
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Willughby, Francis.

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Newton, Alfred.
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Meigs, J. F.
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Murchison, Charles.
Nichols, C. H.
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Paget, *Sir* James.
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Penrose, R. A. F.
Pepper, William.
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Ray, Isaac.
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Taylor, A. S.
Thompson, Theophilus.
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Toner, J. M.
Virchow, Rudolf.
Ware, C. E.
Watson, *Sir* Thomas.
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Young, Thomas.

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Ångström, A. J.
Ångström, K. J.
Apjohn, James.
Arago, D. F. J.
Bache, A. D.
Barker, G. F.
Barré de Saint-Venant, A. J. C.
Bartlett, W. H. C.
Becquerel, A. H.
Becquerel, Edmond.
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Biot, J. B.
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Bravais, Auguste.
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Cooke, *Sir* W. F.
Cornu, M. A.
Coulomb, C. A. de.
Crookes, *Sir* William.
Dove, H. W.
Everett, J. D.
Faraday, Michael.
Fitzgerald, G. F.
Foucault, J. B. L.
Fourier, J. B. J. *baron.*
Fresnel, A. J.
Galileo.
Gibbs, J. W.
Guthrie, Frederick.
Harcourt, W. V. V.
Helmholtz, H. L. F. von.
Hennessy, Henry.
Henry, Joseph.
Herschel, *Sir* J. F. W.
Hertz, Heinrich.
Hoff, J. H. van't.
Holman, S. W.
Huygens, Christiaan.
Jamin, J. C.
Jedlik, Anianus.
Joule, J. P.
Kelland, Philip.

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Kimball, A. S.
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König, K. R.
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Lane, J. H.
Le Conte, John.
Lefavour, E. B.
Lovering, Joseph.
Magnus, H. G.
Malus, É. L.
Mascart, É. É. N.
Maxwell, J. C.
Mayer, A. M.
Mayer, J. R. von.
Mendenhall, T. C.
Neumann, F. E.
Ohm, G. S.
Örsted, H. C.
Peltier, J. C. A.
Peregrinus, Petrus.
Plateau, A. F. J.
Plücker, Julius.
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Potier, Alfred.
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Reis, J. P.
Riemann, G. F. B.
Röntgen, W. C.
Rood, O. N.
Rowland, H. A.
Rumford, Benjamin Thompson, *count.*
Silliman, Benjamin.
Smith, Archibald.
Spottiswoode, William.
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Tyndall, John.
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Wheatstone, *Sir* Charles.
Whewell, William.
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Aselli, Gaspar.
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Bernard, Claude.
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Borelli, G. A.
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Davy, John.
Dean, John.
Donders, F. C.
Du Bois-Reymond, E. H.
Flourens, M. J. P.
Galvani, Luigi.
Gamgee, Arthur.
Glisson, Francis.
Hales, Stephen.
Haller, Albrecht von.
Helmholtz, H. L. F. von.
Helmont, J. B.
Henle, F. G. J.
Hooke, Robert.
Kölliker, R. A. von.
Leeuwenhoek, Antony van.
Ludwig, K. F. W.
Malpighi, Marvello.
Mayow, John.
Moleschott, Jacob.
Mosso, Angelo.
Müller, J. P.
Pflüger, E. F. W.
Reid, John.
Roy, C. S.
Rutherford, William.
Servetus, Michael.
Sharpey, William.
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Swammerdam, Jan.
Sylvius, Franciscus.

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Guido de Cauliaco.
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Hulke, J. W.
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Hay, Gustavus.

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Beneden, Edouard van.
Bessels, Emil.
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Brehm, Alfred.
Bridge, T. W.
Broderip, W. J.
Brooks, W. K.
Carpenter, P. H.
Clark, H. J.
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Ducrotay de Blainville, H. M. de.
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Geoffroy Saint-Hilaire, Isidore.
Gervais, Paul.
Gosse, P. H.
Hamlin, C. E.
Howes, T. G. B.
Hyatt, Alpheus.
Lacaze-Duthiers, Henri de.
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Lockwood, Samuel.
Lyman, Theodore.

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Milne-Edwards, Henri.
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Nicholson, H. A.
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Putnam, F. W.
Rathke, Heinrich.
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Seeley, H. G.
Semper, C. G.
Siebold, C. T. E. von.
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Erratum

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Part 8. Biography. 1914. 276 pp. 30 cents; postpaid, 40 cents.

Part 9. Books for the Blind. 1914. 44 pp. 5 cents; postpaid, 10 cents.

Part 10. Indexes, Title-pages, Contents, Preface and Synopsis of Classification. 1914. 816 pp. 80 cents; postpaid, $1.00.

†**Monthly Bulletin.** 25 cents a year, postpaid.
Not published in August and September.

†**Annual Reports,** 1st–18th. 1897–1914. Sent free upon request.
Except the 3d and 6th, which are out of print.

†**Circular of Information Concerning the Training School for Childrens Librarians.** Sent free upon request.

†**Periodicals and Other Serials Currently Received by the Carnegie Library of Pittsburgh.** Sixth edition. 1912. 40 pp. 5 cents, postpaid.

†**Books of Interest in Connection with the European War.** 1914. 26 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* October 1914.

Debate Index. Second edition. 1912. 84 pp. 15 cents; postpaid, 20 cents.

†**Debate Index.** Supplement to the second edition. 1913. 23 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* November 1913.

†**Books in the Library of the American Philatelic Society.** 1910. 20 pp. 5 cents, postpaid.

†**Lives and Letters;** a Selected and Annotated List. 1910. 36 pp. 10 cents, postpaid.
Reprinted from the *Monthly Bulletin,* March 1910.

†*__Letters of General Forbes;__ Reprint of 35 Letters Relating to the Expedition against Fort Duquesne. 63 pp. 20 cents, postpaid.
In the *Monthly Bulletin,* February, March, April, May, 1909.

†**Gift of the German Emperor** [List of Books, Maps and Photographs]. 1908. 17 pp.
Reprinted from the *Monthly Bulletin,* April 1908.

†**Industrial Accidents;** a Select List of Books. 1910. 12 pp. 5 cents, postpaid.

†**One Hundred Recent Books on Agriculture.** 1910. 19 pp. 5 cents, postpaid.

†**List of Technical Indexes and Bibliographies Appearing Serially.** 1910. 17 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* June 1910.

Index to Proceedings of the Engineers' Society of Western Pennsylvania, Volumes 1 to 20, 1880–1904. Compiled by Harrison W. Craver. 1906. 144 pp. $1.00, postpaid.

Catalogue of Books in the Childrens Department of the Carnegie Library of Pittsburgh. 1909. 604 pp. 75 cents; postpaid, $1.00.

Catalogue of Books, Annotated and Arranged, and Provided by the Carnegie Library of Pittsburgh for the Use of the First Eight Grades in the Pittsburgh Schools. 1907. 331 pp. 35 cents; postpaid, 50 cents.

Annotated Catalogue of Books Used in the Home Libraries and Reading Clubs. 1905. 110 pp. 20 cents; postpaid, 25 cents.

†*__Gifts for Children's Book Shelves;__ a List for Mothers. 1908. 26 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* November 1908.

†**Stories from the Ballads of Robin Hood;** Outlines for Story-telling. 1914. 38 pp. 5 cents, postpaid.

†**Stories from the Norse;** Outlines for Story-telling. 1914. 22 pp. 5 cents, postpaid.

†**Story Hour Courses for Children from Greek Myths, The Iliad and The Odyssey.** 1906. 32 pp. 5 cents, postpaid.

†**"Foreign Lands Where Wonders Are;"** a Reading List for Children and Young People. 1911. 14 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* November 1911.

Reference Lists

These lists have been compiled to render easily accessible the material in this Library on the various subjects.

†*__Vocational guidance.__ 11 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* May 1913.

†**Housing.** 1912. 45 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* December 1911.

†*__Expeditions of Colonel Bouquet to the Ohio Country, 1763 and 1764.__ 11 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* December 1909.

†**Expedition of General Forbes against Fort Duquesne.** 1908. 20 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* June 1908.

† *__Washington's Visits to Pittsburgh and the Ohio Country.__ 15 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* February 1908.

† *__Braddock's Expedition.__ 11 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* November 1906.

† *__The Whiskey Insurrection.__ 9 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* July 1906.

†**Famous Royal Women;** a Reading List for Girls. 1908. 11 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* January 1908.

Men of Science and Industry; a Guide to the Biographies of Scientists, Engineers, Inventors and Physicians, in the Carnegie Library of Pittsburgh. 1915. 189 pp. 20 cents; postpaid, 30 cents.

†**Air Conditioning.** 1914. 58 pp. 10 cents, postpaid.
Reprinted from the *Monthly Bulletin,* November 1914.

†**Brick Manufacture and Bricklaying.** 1912. 33 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* January 1912.

†**Sewage Disposal and Treatment.** 1910. 96 pp. 15 cents, postpaid.
Reprinted from the *Monthly Bulletin,* November 1910.

†**Electric Heating and Cooking.** 1910. 16 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* January 1910.

† *__Metal Corrosion and Protection.__ Second edition, revised and enlarged. 1909. 58 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* July 1909.

†**Refuse and Garbage Disposal.** 1909. 39 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* January 1909.

† *__Mica.__ 1908. 12 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* October 1908.

† *__Floods and Flood Protection.__ 1908. 48 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* July 1908.

†**Floods and Flood Protection (Supplement).** 1911. 19 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* October 1911.

† *__Sodium Nitrate Industry of Chile.__ 1908. 7 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* March 1908.
Enlarged from the brief list in the *Monthly Bulletin,* November 1903.

† *__Electric Driving in Rolling-mills and Foundries.__ 11 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* November 1907.

† *__Smoke Prevention.__ 18 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* May 1907.

† *__Steam Turbines.__ 21 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* November 1904.

† *__Water Softening.__ 8 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* June 1904.

†**Patriots;** a Reading List for Boys and Girls. 1912. 17 pp. 5 cents, postpaid.
Reprinted from the *Monthly Bulletin,* July 1912.

Pennsylvania; a Reading List for the Use of Schools, with Special Reference to Indian Warfare and the Local History of Pittsburgh. 1911. 83 pp. 20 cents; postpaid, 25 cents.

† *__List of Good Games,__ with References to Books Telling How to Play Them. 12 pp. 5 cents, postpaid.
In the *Monthly Bulletin,* April 1906.

February 1, 1915.